

# HAZARDOUS MATERIALS

## **BFK and other caches are not hazardous materials disposal facilities.**

It is the responsibility of the incident to properly dispose of unused and waste fuel as well as any other hazardous material, as prescribed by applicable laws, rules, and regulations. Hazardous material shipments are regulated by Department of Transportation. The storage, usage, and employer requirements are regulated by OSHA. Special precautions and documentation requirements must be adhered to when shipping and handling hazardous materials. Anyone shipping or handling hazardous material that is not familiar with the requirements should contact the agency hazardous materials specialist for instructions. Noncompliance may result in civil penalties up to \$10,000 being assessed to the individual shipping the hazardous material.

## **IT IS AGAINST THE LAW NOT TO NOTIFY THE CARRIER ABOUT HAZARDOUS MATERIAL BEING SHIPPED.**

Any such material received by the cache will be disposed in accordance to applicable laws, rules and regulations. The cost of which will be charged to the responsible incident.

When purchasing items request the material safety data sheet (MSDS) for any hazardous materials. It is best to mark the item with the date of purchase, especially for paints. If you do not know if the item is classified as a hazardous material, ask the vendor or check with your agency hazardous materials specialist.

When shipping hazardous materials, make sure to complete all required paperwork. This includes a description of the item including proper shipping name, class/division, identification number, packing group, and weight of items.

The training requirements in 49 CFR 172 are applicable to Federal employees because the term employer is defined in the regulations to include United States Departments and Agencies.

Hazardous material is very serious and should be treated as such, with the responsibility of any mishaps resting on the individual rather than that of the government. Important preventions to remember are: keep alert, know what you are handling, and ask for help from the recognized experts.

**Remember, any fueled equipment and fuel containers (except propane) must be empty and purged BEFORE shipping.** It is best to transport these items in an open-air, non-enclosed vehicle. If this cannot be done, then here are the **Common Transport Rules to Remember:**

1. Only packaging described in CFR 49 is to be used.
2. Material within packaging secured from movement.
3. Packaging is secured in transport vehicle to prevent movement.
4. No sharp projections within the cargo hold area of the transport vehicle.
5. Insure no risk exists for puncture, damage, and/or ignition.
6. Make sure multiple classes of materials may or may not be shipped together.
7. Load hazardous materials toward rear of the transport vehicle.
8. Insure the total weight/volume of all hazardous materials in transport vehicle does not exceed allowable limits for any one type.

## **SAFETY IS EVERYONE'S RESPONSIBILITY**

### **Safety First, Every Job, Every Time**

There are many dangers in modern incident camps, in addition to the expected first aid needs. Just a few of these dangers are:

- Hazardous Materials
- Bloodborne Pathogens from contact with Bio-hazards such as body fluids
- Hantavirus disease caused by exposure to rodent excreta

To help limit exposure use protective attire, such as latex gloves, leather gloves, dust masks, long sleeve shirts, helmets, etc. when handling used equipment. This is especially important when handling potentially contaminated items.

Hazardous materials management is a team effort required by law. Key points:

- Employer Knowledge of Chemical Hazards
- Training
- Chemical Inventory
- Labeling
- MSDS (Always request and read them)
- Chemical information availability (read containers, etc.)
- Hazardous communication implementation plan (right-to-know)
- Emergency Planning

Four Methods of Employee Protection:

- Safe work practices
- Engineering control (remove, minimize hazards)
- Administrative control (conditions of employment, training, etc)
- Personal protective equipment

#### 5 Rs of Safety

- Recognize
- Retreat
- Report
- Record
- Restrict

#### Routes of Exposure

- Inhalation
- Ingestion
- Injection
- Absorption

***NUMBER ONE CONTRIBUTOR TO ACCIDENTS-  
Failure to follow established policies and procedures.  
HAZARDOUS MATERIAL REGULATIONS ARE IN PLACE TO PREVENT  
ACCIDENTS AND SAVE LIVES.***

Contact your safety officer at the incident or local agency for more information.

BLM	Karilynn Volk	Montana State Office	Billings, MT	406-896-5190
BIA	Rick Stefonic	Rocky Mtn. Regional Office	Billings, MT	406-247-7911
USFS	Bob Kirkpatrick	Regional Office	Missoula, MT	406-329-3420
	Jack Conner	Custer National Forest	Billings, MT	406-657-6205, ext. 205
FWS	Jim Behrmann	Regional Office	Denver, CO	303-236-8116, ext. 279
DES (Montana State)	Bill Miller		Helena, MT	406-444-6743
DNRC (Montana State)	Jan Wheeler		Billings, MT	406-247-4400

## HAZMAT ITEMS

Common hazardous materials that may be encountered are: aerial ignition devices (ping-pong balls), fuels, wet batteries, battery acid, aerosol paint, paint thinners, cleaning products, engines that may contain fuel after use, propane, fusees, and used fuel hoses.

Samples of individual hazardous material carried/handled at BFK that will require Hazmat information and load limit per item or a combined weight of 1,000 lbs.:

Oxygen, compressed: NFES 1727, 1728, & 1835 (Oxygen Therapy Kits) 3 Cylinders

Proper shipping name: OXYGEN, Compressed, 2.2 UN1072

Marking & Label: NON-FLAMMABLE GAS, OXIDIZER

Requires approved bottle with relief valve and packed in a strong shipping box

Suggested quantity limit per load: 12BT

Extinguisher, Fire: NFES 0307

Proper shipping name: FIRE EXTINGUISHER, 2.2 UN1044

Marking & Label: NONFLAMMABLE GAS 2

173.309 exception from labeling & placarding when shipping by ground.

Must be in a strong shipping box

Commercial air freight forbidden

Suggested quantity limit per load: 22EA (20 lb. Tanks)

Fusee, signal device, hand: NFE S0105

Proper shipping name: FUSEE, 4.1, NA1325, II

Marking & Label: FLAMMABLE SOLID

173.184 – must be packed in 4G fiberboard box

Commercial air restricted; additional requirements

Suggested quantity limit per load: 21 BX

Tank, Propane: NFES 0491, & 0480

Proper shipping name: PETROLEUM GASES, LIQUIFIED, 2.1 UN1075

Marking & Label: FLAMMABLE GAS, 2.1

Commercial air restricted; additional requirements

Suggested quantity limit per load: 22 EA (20 lb. Tanks)

The above limits were set by Northern Rockies' Haul-Back Policy at 80% of maximum allowable quantity to provide for a safe margin of error so the Placard exception in 49 CFR 172.504 © applies. By limiting these Hazmat items to less than 10000 lbs. total aggregate gross weight, the exception applies and a DCL driver with Hazmat endorsement is **not** required.

Please see the HAZMAT guide in the National NFES catalog for more information.

## **INSTRUCTION FOR SHIPPING INTERNAL COMBUSTION POWERED ENGINE EQUIPMENT & FUEL CONTAINERS**

All internal combustion engines must be operated until starved of fuel. Engines fuel lines, and fuel containers, **must be EMPTIED** of any and all remaining residual fuel and purged properly before shipping.

No fuel or flammable liquids are to be transported to the cache in any form, except propane. This includes gasoline, gasohol, kerosene, diesel, Avgas, Coleman fuel, etc.

- All fuel containers must be emptied and purged before shipping.
- Container with punctures or ineffective seals are not to be returned to the cache.

### **PREFERRED MEANS OF PURGING:**

- Drain fuel tank or container into appropriate container for customer use or disposal.
- Operate engine until starved of fuel.
- In the upright position spray purging fluid into tank or container. (Purge must be sprayed and not poured to be effective. It only takes about three to six shots). Vent tank or container until dry if possible. When dry, recap the tank or container. Tag all items that have been purged.

Purging fluid, e.g., Purge, NFES #0700 is available by local purchase or from the cache in a 16-ounce spray bottle. If purge is not available, ensure tank is empty of all fuel and recap tightly and empty any fuel lines or carburetors, if possible, by running the engine until it quits.

When transporting an item with an internal combustion engine equipped with a battery, the battery cables must be disconnected and secured to prevent sparks. Also applies to radio batteries cables.

Generators fuel lines need to be turned off before moving, even when just moving around fire camp. If this is not done, damage to the engine may occur. Generators should be serviced after 50 hours of service.

Any engines or fuel containers that have been used on the incident should be shipped in an open-air, non-enclosed vehicle. It is okay but not recommended to transport in an enclosed moving van, etc. Ensure all containers are shipped in a secure, upright position and all lids are tightly closed.

All hazardous materials should be correctly identified and returned using a Waybill per 49 CFR. See Hazardous Material Haul-Back Shipping Statement from the Incident. (next page)

All internal combustion equipment and fuel containers must be drained and purge or declared on shipping papers and provided to driver. Drivers should be present when the vehicle is loaded. It is the driver's responsibility to ensure a vehicle is properly loaded.

- ❖ Absolutely no Red Bio-Hazard Disposal Bags will be accepted or returned to the cache. The Medical Unit at the incident should handle all bio-hazards.

*These instructions are to be enclosed in all kits with internal combustion powered equipment where it can easily be referred to, such as on the inside of the box lid or flap.*

## HAZARDOUS MATERIAL HAUL-BACK STATEMENT from the INCIDENT

Prepared by: \_\_\_\_\_ Position on Incident: \_\_\_\_\_  
Incident Name: \_\_\_\_\_ Date of Report: \_\_\_\_\_  
Preparer's Home Unit: \_\_\_\_\_ Phone Number: \_\_\_\_\_

### NO FUEL TYPES SHOULD BE TRANSPORTED BACK TO THE CACHE, except propane.

This includes, but is not limited to: Gasoline, Gasohol, Kerosene, Diesel, Avgas, White Gas, Drip Torch Fuel, etc. All internal combustion engines must be operated until starved of fuel. Engines, fuel lines, and fuel containers, emptied of any and all remaining residual fuel and purged properly before shipping. Transport in an open-air, non-enclosed vehicle if possible. BFK adheres to the Northern Rockies Fire Cache Hazardous Materials Haul-back Policy and to the 29 & 49 CFR.

### HAZARDOUS MATERIALS ON THIS SHIPMENT

This is to certify that the here-in named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

**CHEMTREC: 1-800-424-9300**

**SHIPPER: "National Interagency Support Cache"**

Emergency Response Phone Number

**Signature:** \_\_\_\_\_

HM	Proper Shipping Name	Class	Identification Number	Packing Group	Quantity/ No. Units	Gross Weight
	Fire Extinguisher	2.2	UN1044			
	Fusee	4.1	NA1325			
	Oxygen, Compressed	2.2	UN1072			
	Petroleum Gases, liquefied	2.1	UN1075			
	Gasoline	3	UN1203			

Check all MSDS items below that are being shipped on this load.

#### **MSDS ARE AVAILABLE UPON REQUEST.**

☐ Indicates item requires a MSDS but **IS NOT** on this load.

☒ Indicates item requires a MSDS and is shipped on this load.

☐ 0030 Battery, AA

☐ 0651 Oil, SAE 30 WT

☐ 1842 Food, MRE

☐ 0033 Battery, D, Alk

☐ 0700 Purging Fluid

☐ 1869 Oil, Bar & Chain

☐ 0237 Paint, Orange

☐ 1023 Battery, Repeater

☐ 3007, 3008, 3009, Lightsticks

☐ 0341 Oil, 2-cycle, Qt

☐ 1145 Foam, 5 GL (*Silvex*)

☐ 3444 Oil, 2-cycle, mix size

24-Hour Emergency Response Phone Numbers: **CHEMTREC: 1-800-424-9300**

Customer identification: "National Interagency Support Caches"

Montana State DES: 406-841-3911

National NRC: 1-800-424-8802

## HazMat References

- 49 CFR, Part 100-185 Hazardous Materials Section
- 29 CFR, Part 1910 OSHA Requirements
- NWCG National Fire Equipment System Catalog, NFES 0362
- Pocket Guide to Hazardous Materials; Compliance Information for Drivers
- Federal Motor Carrier Safety Regulations
- Emergency Response Guidebook, DOT, North American, NFES 2150
- Clues and Decide Wallet Card, NFES 2148
- Dos and Don'ts of Hazardous Materials Wallet Card, NFES 2149
- Hazardous Materials Classification Wallet Card
- Northern Rockies Fire Cache Hazardous Material Haul-back Policy
- Interagency Aviation Transport of Hazardous Materials Handbook, NFES 1068
- Other agency specific manuals and handbooks

### SPECIFIC EXCERPTS

Per 49 CFR 171.8 (11/01), **Hazardous Material** means a substance or material, which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated. The term includes hazardous substances, hazardous wastes, marine pollutants, and elevated temperature materials as defined in this section, materials designated as hazardous under the provisions of §172.101 of this subchapter, and materials that meet the defining criteria for hazardous classes and divisions in part 173 of this subchapter.

Per 49 CFR 172.200, **Shipping Papers** (11/01) (a) Description of hazardous materials required. Except as otherwise provided in this subpart, each person who offers a hazardous material for transportation shall describe the hazardous material on the shipping paper in the manner required by this subpart.

Per 49 CFR 172.300, **Marking** (11/01) (a) Each person who offers a hazardous material for transportation shall mark each package, freight container, and transport vehicle containing the hazardous material in the manner required by this subpart.

Per 49 CFR 172.400, **Labeling** (11/01) Each person who offers for transportation or transports a hazardous material in any package or container, shall label the package or container with labels specified for the materials in the 172.101 table in 49 CFR.

Per 49 CFR 172.700, **Training** (11/01) (b) Scope. Training as used in this subpart means a systematic program that ensures a HAZMAT employee has familiarity with the general provisions of this subchapter, is able to recognize and identify hazardous materials, has knowledge of emergency response information, self-protection measures and accident prevention methods and procedures (see §172.704).

Per 29 CFR 1910.1200 (12/00), **Hazard Communication** (a) Purpose. (1) The purpose of this section is to ensure that hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees. This transmittal of information is to be accomplished by means of comprehensive hazard communication programs, which are to include container labeling and other forms of warning, material safety data sheets and employee training.